



Environmental Solutions, Inc.

March 28, 2000

Mr. Lonnie Lee
Waste Management Division
Section Chief
Groundwater Quality
Michigan Department of Environmental Quality
PO Box 30241
Lansing, Michigan 48909

RE: Application for a Groundwater Discharge Permit, Rule 2218, for Williamsburg Receiving and Storage, 10190 Munro Road, Whitewater Township, Williamsburg, Michigan

Dear Mr. Lee:

Enclosed in Attachment 1 is an application for Williamsburg Receiving and Storage for a groundwater discharge permit under Rule 323.2218 of the Michigan Natural Resources and Environmental Protection Act of 1994, PA 451 as amended.

Through this letter, we will provide a summary of the process under consideration for a discharge permit. We believe that the information provided demonstrates qualification for an exemption from permitting under rule 323.2210 (y), however, in order to expedite the process, we have provided the information required for Rule 2218.

Process Description

Williamsburg Receiving and Storage currently processes cherries during the cherry harvesting season, stores these cherries in brine solution, and ships the cherries to customers for further processing and use. They do not discharge any brine; all brine is utilized for shipping cherries from the facility. Approximately twenty percent of the brine utilized for shipment must be made in addition to what has been utilized for storage of the cherries.

The facility has recently renewed wastewater permit number MI 0044741, which allows the discharge of cooling water during harvesting season. This water is in contact with the fresh cherries

page 2

only, and a maximum of 1.3 million gallons per day is discharged from the facility to Tobeco swamp between June and August.

The facility is currently installing equipment to allow the capability of removing the pits and stems from the cherries. A schematic of the process is included in the application under Attachment 1. The cherries are pumped from brine storage through a food pump and food grade lines to the dump tank. The cherries are then pumped through an initial misting stage at the debrining eliminator. Residual brine is removed at this stage from the cherries. The initial stage will utilize approximately three gallons of water per minute. Water discharged from this process will be recycled to brine storage. The cherries are then sent through a destemmer and six pitters. The process at Williamsburg Receiving and Storage does not require water for transport; the process prefers as little water as possible as transport is conducted via conveyor. At each of these stages, a maximum of five gallons per minute is utilized, bringing total maximum usage pitting and discharge stages to 35 gallons per minute. This flow will be recycled through the pitters to the extent practicable. A maximum operating schedule is anticipated to be 20 hours per day, and the amount of discharge from the facility would be a maximum of 42,000 gallons per day. The facility is proposed to operate year round, seven days a week.

Proposed Discharge

The facility is in the process of constructing a lined pond with a holding capacity of 1.5 million gallons. The effluent will be utilized for irrigating cherry fields on the applicant's property as well as cherry farms on adjacent properties (refer to Site Map 2 in application). The total area for groundwater application is approximately eighty acres. Application of the effluent will be through aerial spray and trickle irrigation. This application will be rotated as necessary to ensure crop and land stability. Visual inspections of the irrigations will be made prior to, during and after irrigation to evaluate pooling, ponding, and runoff. Though maximum discharge on a daily basis will be 42,000 gallons, average daily discharge is expected to be much lower than this amount.

Analysis of Alternatives

Rule 323.2217 requires certification that the applicant has identified and considered steps to avoid or minimize the use and discharge of pollutants authorized to be discharged. Recycling from the eliminators to the brine solution, utilization of a "dry" transport process, recycling internally at the pitters and destemmers, and utilization of the discharge to support and enhance existing cherry farms all contribute to minimization of waste. By utilizing the discharge on existing fields and cherry farms, waste disposal is also minimized at alternative waste treatment facilities.

Hydrogeological Study

Based on the analytical results and the limited discharge rates, with adherence to an Irrigation Management Plan, we are proposing that hydrogeological requirements be waived for this application. It is worth noting that a previous hydrogeological study has been conducted on the proposed discharge area, and based on this study, it was concluded that 94,000 gallons per day of

brine solution would not have a detrimental impact on the land. Furthermore, the Right to Farm Act of Michigan allows a farmer to irrigate lands without additional permitting requirements.

Irrigation Management Plan

The Irrigation Management Plan (IMP) is submitted under Attachment 2. Irrigation water will be applied through a trickle system to approximately eighty acres of cherry tree orchards and through a spray system to approximately thirty acres of field. Effluent quality and application rates are discussed in the IMP.

We trust that the information provided is sufficient to meet the requirements of the exemption. If necessary, assumptions for any of the testing parameters can be confirmed prior to discharge. Four samples, the minimum suggested in the guideline for Waste Water Characterization, were available for determining effluent quality.

An additional copy of this letter and all Attachments is included with this mailing. Please let us know how we can assist you in processing this application, so that we may proceed with irrigation on the described land. If you have any questions regarding the referenced information, please contact me at (231) 941-2025, extension 104.

Sincerely,

ENVIRONMENTAL SOLUTIONS, INC.

Industrial Management Specialist

pc: C

Chris Hubbell

Ed Roy

Janice Heuer - Michigan Department of Environmental Quality enc.

ATTACHMENT 1 Groundwater Discharge Permit Application

PART 31 OF THE NATURAL RESOURCES AND ENVIRONMENTAL PROTECTION ACT, 1994 PA 45, AS AMENDED, BEING R 323.2101 TO 2192 AND R 323.2201 TO 2240.

GENERAL INFORMATION

Print or type clearly
1. DISCHARGE FACILITY NAME Williamsburg Receiving and Storage, Ing.
2. FACILITY OWNER NAME AND MAILING ADDRESS Name Chris Hubbell
Street Address or P.O. Box 10190 Munro Road
City, State and Zip Code Williamsburg, MI 49690
Telephone No. (231) 264-5260 Fax No. (231) 264-8774
3. CONTACT PERSON Name and Title Chris Hubbell - Owner (president)
Street Address or P.O. Box 10190 Munra Road
City, State and Zip Code Williamsburg, Michigan 49690
Telephone No. (231) 264-5260 Fax No. (231) 264-8774
DISCHARGE LOCATION Street Address
City Williamsburg State Michigan Zip Code 49690
County Grand Traverse Whitewater Township
Township 28N Range 9W Section Number 9
Legal Description Attached First Quarter Section Second Quarter Section Additional Quarter Sections
N 44° 44' 54" Latitude Longitude W 85° 24' 32"
5. CERTIFIED OPERATOR (NOT REQUIRED FOR 2211(c), (d), (e), (g), (h), or 2213 (2), (3), (4))
Name David Cooper Certification Number A1h
Street Address Environmental Solutions, Inc P.O. Box 2127
City Traverse City State Michigan Zip Code 49685
Telephone No. (231 941-2025

Certificate of Surve,

DESCRIPTIONS

Parcels of land situated in Whitewater Township, Grand Traverse County, Michigan, and more fully described as follows:

PARCEL 1

That part of the Southwest 1/4 of Section 9, Town 28 North, Range 9 West, described as: Beginning at the Southwest corner of said Section 9; thence North 00°05′55″ East along the West line of said section and centerline of Munro Road 1198.11 feet; thence South 89°47′38″ East 207.28 feet; thence North 53°45′33″ East 202.05 feet; thence South 89°47′38″ East 125.65 feet; thence South 00°05′55″ West 1316.82 feet to the South line of said section and centerline of Angell Road; thence North 89°56′50″ West along said South section line and centerline 495.65 feet to the point of beginning, and containing 14.20 acres of land.

Subject to the rights of the public over the Southerly 33 feet thereof as accupied by Angell Road, and the Westerly 33 feet as occupied by Munro Road.

Also subject to easements, right—of—ways, reservations and restrictions of record.

PARCEL 2

That part of the Southwest 1/4 of Section 9, Town 28 North, Range 9 West, described as: Commencing at the Southwest corner of said Section 9; thence South 89°56′50″ East along the South line of said section and centerline of Angell Road 495.65 feet to the point of beginning; thence North 00°05′55″ East 1316.82 feet; thence South 89°47′38″ East 164.35 feet; thence South 00°05′54″ West 502.53 feet; thence South 89°52′14″ East 594.51 feet; thence South 00°06′22″ West 155.66 feet; thence South 89°52′14″ East 236.82 feet; thence South 00°09′03″ West 657.08 feet to said South section line and centerline; thence North 89°56′50″ West along said South section line and centerline 995.06 feet to the point of beginning, and containing 19.63 acres of land.

Subject to the rights of the public over the Southerly 33 feet thereof as occupied by Angell Road. Also subject to easements, right—of—ways, reservations and restrictions of record.

NEIL L WAY Licensed Surveyor Number: 28432

Ί

(616) 264-9110
FAX: 264-9311

CHRIS HUBBELL

Part of the SW 1/4 of Sec. 9, T28N, R9W, Whitewater Twp., Grand Traverse Co., Michigan.

710 US-31 SOUTH
P.O. BOX 836
ELK RAPIDS, MI 49629

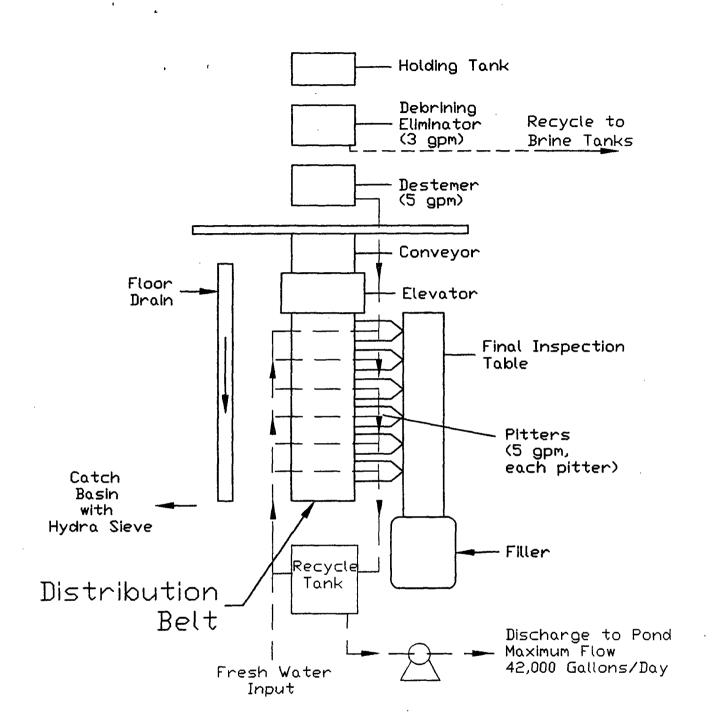
FB/PG: 2042/68 Drafted By: SMM-1044 Sheet 2 of 3

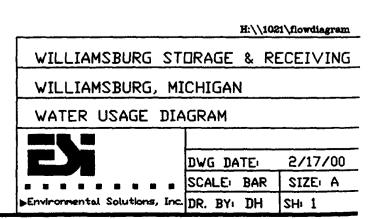
Drwg File: 99-2086.dwg

				
6. FOR	R RULE 2215, 2216 AND 22	18 AUTHORIZATIONS C	ONLY:	
PIF	ASE INDICATE WHERE TH	HE COMPLIANCE MONI	TORING REPORT FORM	S SHOULD BE SENT
		in som that work	TORMO REL ORT TORM	O ONOOLD DE OLIVI
NAME				
STREET	Chris Hubbell ADDRESS	owner (Pres	ident)	
<u></u>	10190 Munro Road	1		
CITY	Williamahuwa	STATE	ZIP CODE	
	Williamsburg	Michigan	49690	
1	ORIZATION REQUESTED		MEMALIOE	DE100114110E
	Rule 2210(y), Site Specific E	exemption		REISSUANCE
	Rule 2211, Notification Rule 2213, Notification with (Cortification	NEW USE	_REISSUANCE
	Rule 2215, Notification with Rule 2215, General Permit, (NEW USE	REISSUANCE REISSUANCE
	Rule 2216, Specific Discharg		NEW USE	REISSUANCE REISSUANCE
	Rule 2218, Discharge Permit		NEW USE	_REISSUANCE
<u> </u>	tule 2210, Discharge Ferris	•	* NEW 03E	_REISSUANCE
	JESTING A REISSUANCE			
	RIZATION, PLEASE INCLU RIZATION:	DETHE PERMIT/EXEM	PTION NUMBER OF THE	CURRENT
	rent authorization is a perm	it, Rules 2215, 2216 or 22	218, or was issued	
	August 26, 1999, the number		·	M
	rent authorization is a site s		2210(y), or was	
	rior to August 26, 1999, the			GWE
If the cur	rent authorization is a notifi	cation, Rule 2211, the nu	mber is:	GWN
If the cur	rent authorization is a notifi	cation/certification, Rule 2	2213, the number is:	GWC
				
8. FACII	LITY STANDARD INDUSTR	IAL CLASSIFICATION (S	SIC) CODE. This information	tion is available through the
	epartment of Labor, Office o			
2	033			
o cite	MADO			
9. SITE Provid	iviAF5 de two black and white 8 1/2	" X 11" maps drawn to so	ale that show the following	o:
	MAP 1	•	,	•
a) [Discharge location in relation	to property boundaries	on a topographic map.	,
	Township and county name.			
c) 1	North arrow orientation.			
SITE	MAP 2 - All sites must inclu	de item a, include items t	e as necessary.	
	Current and proposed treatm		areas and distance to prop	erty lines.
	Monitoring wells on site and			I
	Potable wells on site and on			
	Surface waters, including we Distance between multiple di		ams, and drains on the pro	operty.
	CH SITE MAP TO THIS AP			
7117	5., 51.E mm 10 11110 M			

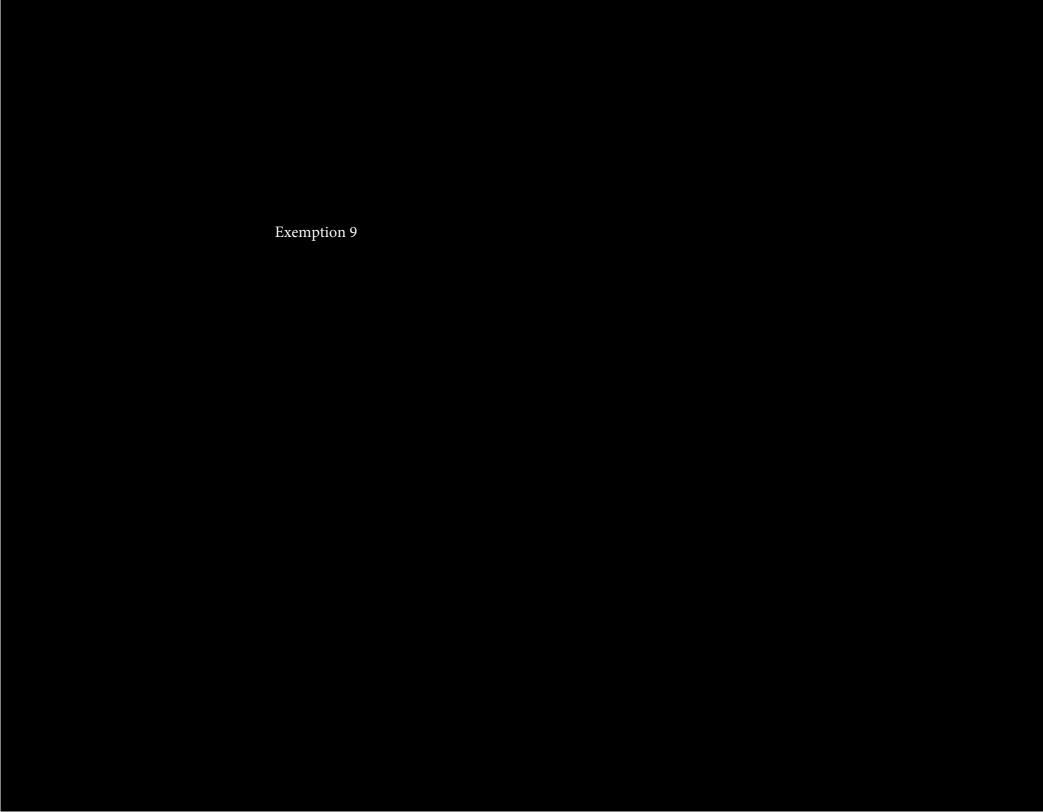
Exemption 6, 9 applies to pages 8-9

Please at flows such substance should sh	n as sanitary, process we s are added to the was ow daily average flow ra	vater, etc. Please also indicate te stream for which this author	e facility, from supply to dischate where in the system additive rization is being sought. The vacharge points and daily flow racessible.	s or other vater balance
Are all pa irrigation IF NO, A' WILL OC	irts of the treatment syst fields) located on prope FTACH THE NAME ANI	rty owned by the applicant? D ADDRESS OF THE PROPE THE WRITTEN PERMISSIO	REA J. treatment plant, underground YesNo ERTY OWNER WHERE THE ON TO DISCHARGE ON PRO	DISCHARGE
Are there Yes _ IF YES, A	any known groundwate No x Ur	r contamination sites within 1/ hknown ICATION FORM A DESCRIP	RCE OF GROUNDWATER CO /4 mile of your disposal site? TION OF THE LOCATION AN	
The following distance from WELL TYPE I, IIa IIb, III Domestic Distance to no	your discharge to the n	earest water supply well? THORIZATION: 2218, 2216(3	o adjacent water supply wells. ALL OTHER AL 200 75 50	What is the JTHORIZATIONS
	earest Domestic water		_	
	Closest munic	ipal well - Elk Ra	pids	
List the na	IT PROPERTY OWNER ames and addresses of Include properties acro	all property owners adjacent t	to the facility, treatment system	ns and discharge
ATTACH	ANY ADDITIONAL NAM	MES AND ADDRESSES TO T	THE APPLICATION FORM.	
NAM	=	COMPLETE MAILING AD	DRESS	
·	Attached			
ls your fa	AD PROTECTION cility located in a design ase identify the commu	ated wellhead protection area	a? Yes Nox	<u> </u>





NOTE: DRAVING IS FOR REFERENCE UNLY AND IS NEITHER COMPLETE NOR TO EXACTING SCALE



16	SIGNATO	ADV DENI	JIREMENT
10	OKSIVATI	7K 1 KCU1	JIKEIVIENI

Pursuant to Rule 2114 of the Part 21 Rules, this application must have an original signature, and be signed by the appropriate representative(s) as follows:

- A. For a corporation, the form must be signed by a principal executive officer of at least the level of Vice-president, or his/her designated representative, if the representative is responsible for the overall operation of the facility from which the discharge described in the permit application (appropriate documentation must be provided to demonstrate the position and responsibility of the designated representative).
- B. For a partnership, the form must be signed by a general partner.
- C. For a sole proprietorship, the form must be signed by the proprietor.
- D. For municipal, state or other public facility, the form must be signed by either a principal executive officer, the mayor, village president, city or village manager or other duly authorized employee.

All signatures submitted to the department must be original signatures, or the application will be returned as incomplete. The details of these requirements are found in Rule 2114.

	sburg Receiving and Storage, Inc.
Signature Dus Ab	Well President Date 2-21-2000
system serving a mobile ho prison, or other commercial from the local unit of govern is only a certification that th	scharge of treated sanitary wastewater from a privately owned treatment me park, campground, apartment complex, condominium, nursing home, or residential facility, a principal executive officer or ranking elected official ment must sign the permit application in the space provided. The signature local unit of government is aware of its responsibilities as set forth in
reduce its liability under the	
reduce its liability under the This is to certify that I am at Section 3109 of Act 451.	statute.
reduce its liability under the This is to certify that I am at Section 3109 of Act 451. Print Name	vare of and recognize the responsibilities of the municipality as set forth in
reduce its liability under the This is to certify that I am at Section 3109 of Act 451. Print Name Representing	statute. vare of and recognize the responsibilities of the municipality as set forth in Title
reduce its liability under the This is to certify that I am at Section 3109 of Act 451. Print Name Representing	statute. vare of and recognize the responsibilities of the municipality as set forth in Title

THIS COMPLETES THE GENERAL INFORMATION PORTION THAT ALL DISCHARGERS MUST FILL OUT. PLEASE GO TO THE NEXT SECTION OF THE APPLICATION, DEALING WITH SPECIFIC DISCHARGES, AND FILL OUT THE APPROPRIATE PAGES FOR THE SPECIFIC DISCHARGE PROPOSED. IF APPLYING FOR AN EXEMPTION UNDER RULE 2210(y). PLEASE ATTACH THE PERTINENT INFORMATION OUTLINING HOW THE PROPOSED DISCHARGE VOLUME AND CONSTITUENTS ARE NOT LIKELY TO BECOME INJURIOUS TO GROUNDWATER.

16	SIGNA	TORY	REQUI	IREMENT	

Pursuant to Rule 2114 of the Part 21 Rules, this application must have an original signature, and be signed by the appropriate representative(s) as follows:

- A. For a corporation, the form must be signed by a principal executive officer of at least the level of Vice-president, or his/her designated representative, if the representative is responsible for the overall operation of the facility from which the discharge described in the permit application (appropriate documentation must be provided to demonstrate the position and responsibility of the designated representative).
- B. For a partnership, the form must be signed by a general partner.
- C. For a sole proprietorship, the form must be signed by the proprietor.
- D. For municipal, state or other public facility, the form must be signed by either a principal executive officer, the mayor, village president, city or village manager or other duly authorized employee.

All signatures submitted to the department must be original signatures, or the application will be returned as incomplete. The details of these requirements are found in Rule 2114.

Print Name Chris Hubbell	TitleO	wner (President)
Representing <u>Williamsburg Receiving</u>		
Signature Challed Ol. Ol	_ Date <u>3 -</u>	28-00
 		
If the application is for the discharge of treated sanital system serving a mobile home park, campground, apprison, or other commercial or residential facility, a perform the local unit of government must sign the permissionly a certification that the local unit of government Section 3109(2) of Act 451. The refusal of the local reduce its liability under the statute. This is to certify that I am aware of and recognize the Section 3109 of Act 451.	partment comportincipal execution in application in the second in the se	elex, condominium, nursing home, tive officer or ranking elected official in the space provided. The signature is responsibilities as set forth in ment to sign the application does not
Print Name	Title	
Representing		
Signature		Date

THIS COMPLETES THE GENERAL INFORMATION PORTION THAT ALL DISCHARGERS MUST FILL OUT. PLEASE GO TO THE NEXT SECTION OF THE APPLICATION, DEALING WITH SPECIFIC DISCHARGES, AND FILL OUT THE APPROPRIATE PAGES FOR THE SPECIFIC DISCHARGE PROPOSED. IF APPLYING FOR AN EXEMPTION UNDER RULE 2210(y). PLEASE ATTACH THE PERTINENT INFORMATION OUTLINING HOW THE PROPOSED DISCHARGE VOLUME AND CONSTITUENTS ARE NOT LIKELY TO BECOME INJURIOUS TO GROUNDWATER.

RULE 323.2218

DISCHARGE PERMITS

1.	TYPE OF TREATED WASTEWATER FOR WHICH THE AUTHORIZATION IS REQUESTED. PLEASE CHECK ALL THAT APPLY
by	Cooling water, greater than 5,000 gallons per day
IRR	ISCHARGE VOLUME ALL DISCHARGES: Maximum daily discharge:
	DISCHARGE METHOD se check the discharge method used:
<u>LAN</u>	D SURFACE DISPOSAL DISPOSAL CODE Spray Irrigation A1f1 Tile Field A1g1 A1g2 Flood/Sheet Irrigation A1f3 Injection well A1g3 Seepage Beds: Drywell A1g4 Rapid Rate A1f4 Rapid Rate A1f5 Other. Please describe

WILLIAMSBURG RECEIVING AND STORAGE APPLICATION RATES - SPRAY AND TRICKLE SYSTEMS

Crestorn	Discharge		Applica	tion Rate	
System	Period	inches/hour	inches/day	inches/week	inches/year
Spray System	October 1 to April 30	.05	.40	2.0	57.6
Trickle System	May 1 to September 30	.004	.09	.63	13.86

4a. New Permits – Rule 2213(3)(a)	
The following information must be included in the application for a new permit. Refer directly to Rule 2218 for specific information requirements. Please indicate where the necessary information is included in this application. Please indicate NA for those that do not apply to your discharge:	
An evaluation of the feasibility of alternatives to discharge to the groundwater in accordance with Rule 2219. See instructions, Page 9. This item is found <u>in attached</u> cover letter The basis of design as required by 323.2218(2). See instructions, Page 10. This item is found <u>in Irrigation Management Plan</u> The hydrogeological report as required by Rule 2221. See Guidesheet I. This item is found <u>see letter requesting waiving of hydrogeological requirements</u> The wastewater characterization as required by Rule 2220. See Guidesheet III. This item is found in attached cover letter If a standard applicable to the discharge is to be determined under Rule 2222(5), the information necessary to determine that standard, including whether a substance is a hazardous substance under part 201. See Guidesheet V. This item is found The groundwater, or other media, sampling and analysis plan as specified by Rule 2223. See instructions, Page 10 This item is found <u>see letter requesting waiving of hydrogeological Information is attached that demonstrates the land treatment requirements of Rule 2233 will be met. See Guidesheet IV. This item is found <u>in Irrigation Management Plan</u> If a lagoon is included in the treatment process, information that demonstrates that the requirements of Rule 2237 will be met. See Guidesheet IV. This item is found <u>in Irrigation Management Plan</u> If a lagoon is included in the treatment process, information that demonstrates that the requirements of Rule 2237 will be met. See Guidesheet IV. This item is found <u>information that demonstrates that the requirements of Rule 2237 will be met. See Guidesheet IV. This item is found <u>information that demonstrates that the requirements of Rule 2237 will be met. See Guidesheet IV. This item is found </u></u></u>	gmts
4b. Reissuance of current permit, no modifications, Rule 2218(3)(c). Please check all system characteristics that apply for this specific discharge:	
NA The discharge consists of the same quantity, effluent characterization, and treatment process as previously permitted.	
A narrative description of the history of facility compliance with effluent and groundwater permit limits and sampling frequency is included. This item is found	
NA An updated site map is included. This item is found The most recent static water levels and groundwater elevations from all wells on site. This item is found	
NA A current groundwater contour map is included, with a narrative evaluation of whether changes to the existing groundwater monitoring system are warranted and the rationale for any proposed change. This item is found	
NA The most recent groundwater quality results are included from all wells on site. This item is found	
NA The most recent effluent quality results are included. This item is found	
Please check that all of the following that apply are included: NA If permit limits were exceeded, the steps taken to bring the facility into compliance. This item is found NA An evaluation of whether there are general trends in the effluent or groundwater sampling data indicating that the discharge is approaching permit limits. This item is found NA The discharger has provided the department, within 30 calendar days of completion of construction of the treatment facilities, a certification by an engineer licensed under Act No. 299 of the Public Acts of 1980, as	
amended, that a quality control and quality assurance program was utilized and that the facilities were built consistent with standard construction practices to comply with the permit and this part.	

4c. system	Reissuance of current permit, with significant modifications Rule 2218(3)(b). Please check all characteristics that apply for this specific discharge:
<u>NA</u>	An evaluation of the feasibility of alternatives to discharge to the groundwater in accordance with Rule 2219 is included. See Page 9. This item is found
NA_	The basis of design required by 323.2218(2) is included. See Page 10. This item is found
NA	The hydrogeological report required by Rule 2221 is included. See Guidesheet I. This item is found
NA_	The wastewater characterization required by Rule 2220 is included. See Guidesheet III. This item is found
_NA necess	If a standard applicable to the discharge is to be determined under Rule 2222(5), the information
Part 20	1. See Guidesheet V. This item is found
<u>NA</u>	The monitoring plan as specified by Rule 2223 is included. See Page 10. This item is found
<u>NA</u>	Information that demonstrates the land treatment requirements of Rule 2233 will be met is included. See Guidesheet II. This item is found
NA_	If a lagoon is included in the treatment process, information that demonstrates that the requirements of Rule 2237 will be met is included. See Guidesheet IV. This item is found
NA_	A narrative description of the history of facility compliance with effluent and groundwater permit limits and sampling frequency is included. This item is found
NA_	An updated site map is included. This item is found
NA_	The most recent static water levels and groundwater elevations from all wells on site are included. This item is found
NA_	A current groundwater contour map and a narrative evaluation of whether changes to the existing
	groundwater monitoring system are warranted and the rationale for any proposed change are
include	
NT X	The most recent groundwater quality results from all wells on site are included. This item is
NE	found .
<u>NA</u>	The most recent effluent quality results are included. This item is found
Please	check that all of the following that apply are included:
NA	If permit limits were exceeded, a description of the steps taken to bring the facility into compliance. This item is found
<u>NA</u>	An evaluation of whether there are general trends in the effluent or groundwater sampling data indicating that the discharge is approaching permit limits. This item is found
<u>NA</u>	The discharger has provided the department, within 30 calendar days of completion of construction of the treatment facilities, a certification by an engineer licensed under Act No. 299 of the Public Acts of 1980, as
·	amended, that a quality control and quality assurance program was utilized and that the facilities were built consistent with standard construction practices to comply with the permit and this part.

Exemption 6 applies to this page

List Adjacent Property Owners List the names and addresses of all owners adjacent to the facility, treatment systems, and discharge locations Street Address / P. O. Box Name City State Zip Code

L			L	
		-		
-	<u> </u>			
		_		
<u>.</u>				
		 		
				
		<u> </u>		
	·····			
 	 			
<u> </u>				
			ļ	
1]		'